

TEST REPORT
IN-00262/2021-1

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TEST REPORT

Report number: IN-00262/2021-1

Total pages: 14

SAMPLE RECEIVED

Information provided by the applicant:

Description: BLACKOUT FR
Reference: BRESSO

Internal description and identification:

Description: Fabric
Reference: M-00262/22



Date of entry: February 22nd, 2022

REQUESTED TESTS

- TEXTILES. DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING
EN ISO 6330:2012
- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNIABILITY OF VERTICALLY ORIENTED SPECIMENS (SMALL FLAME)
EN 1101:1995/A1:2005
- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD OF VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE
EN 13772:2011
- TEXTILES AND TEXTILE PRODUCTS. FIRE BEHAVIOUR. CURTAINS AND DRAPERIES. CLASSIFICATION SCHEME
EN 13773:2003



TEXTILES. DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Test standard:	EN ISO 6330:2012
According to:	N.A.
Date of completion:	February 14 th - 25 th , 2022

Test equipment:
Washing machine, WASCATOR FOM 71 MP-Lab, no. EQ418
Washing machine, WASCATOR FOM 71 CLS, no. EQ2080
Balance, SARTORIUS, no. EQ116

Test conditions:
Conditioning of the specimens: ≥ 24 hours at $(20 \pm 2)^{\circ}\text{C}$ and $(65 \pm 4)\% \text{RH}$
Internal identification of specimens: M-00262/22
Washing procedure: <ul style="list-style-type: none">• Procedure number: 3N• Temperature: 30°C• Washing powder: Without phosphates ECE-98• Total mass of the specimens: 1443,5 g (1 cycle), 1065,0 g (11 cycles)• Type of load: Panels composed of four thicknesses of 100% textured polyester knitted fabric, with a mass per unit area of $(310 \pm 20) \text{g/m}^2$, and dimensions of $(20 \pm 4) \text{cm} \times (20 \pm 4) \text{cm}$• Total counterweight mass: 480,9 g (1 cycle), 925,3 g (11 cycles)• Total load: 2 kg \pm 0,1 kg
Drying procedure: A - Air drying (each cycle)
Number of cycles of washing and drying procedure: 1 and 12



**TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR.
COURTAINS AND DRAPES. DETAILED PROCEDURE TO
DETERMINE THE IGNIABILITY OF VERTICALLY ORIENTED
SPECIMENS (SMALL FLAME)**

Test standard:	EN 1101:1995/A1:2005
According to:	N.A.
Date of completion:	February 17 th , 2022

Test equipment:
Vertical flammability test equipment, JBA, no. EQ299
Chronometer, VENTIX, no. EQ1389
Anemometer, TESTO, no. PA075

Test conditions:
Conditioning of specimens: ≥ 24 hours at $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $65\% \text{ RH} \pm 5\% \text{ RH}$
Test atmosphere: $22,2^{\circ}\text{C}$ and $37,6\% \text{ RH}$
Number of test specimens (according to EN ISO 6940:2004): 24 (12 lengthwise, 12 widthwise)
Internal identification of specimens: M-00262/22
Type of test: After domestic washing, according to EN ISO 6330:2012, procedure 3N, air drying
Dimensions of test specimens: $200 \text{ mm} \pm 2 \text{ mm} \times 80 \text{ mm} \pm 2 \text{ mm}$
Anisotropic material: Yes
Flame height: $40 \text{ mm} \pm 2 \text{ mm}$
Test equipment setting (according to EN ISO 6940:2004): Procedure B – Ignition from the bottom edge (burner tilted 30°)
Air speed: $< 0,2 \text{ m/s}$
Tested area: Bottom edge
Type of gas: Propane, commercial grade

Results:

Preliminary test, according to EN 1101:1996/A1:2005, section 7			
Lengthwise / Warp		Widthwise / Weft	
Flame application time (s)	Results	Flame application time (s)	Results
1	O	1	O
2	O	2	O
3	O	3	O
4	O	4	O
5	O	5	O
10	O	10	O
15	O	15	O
20	O	20	O

X: Ignition / O: Non-ignition

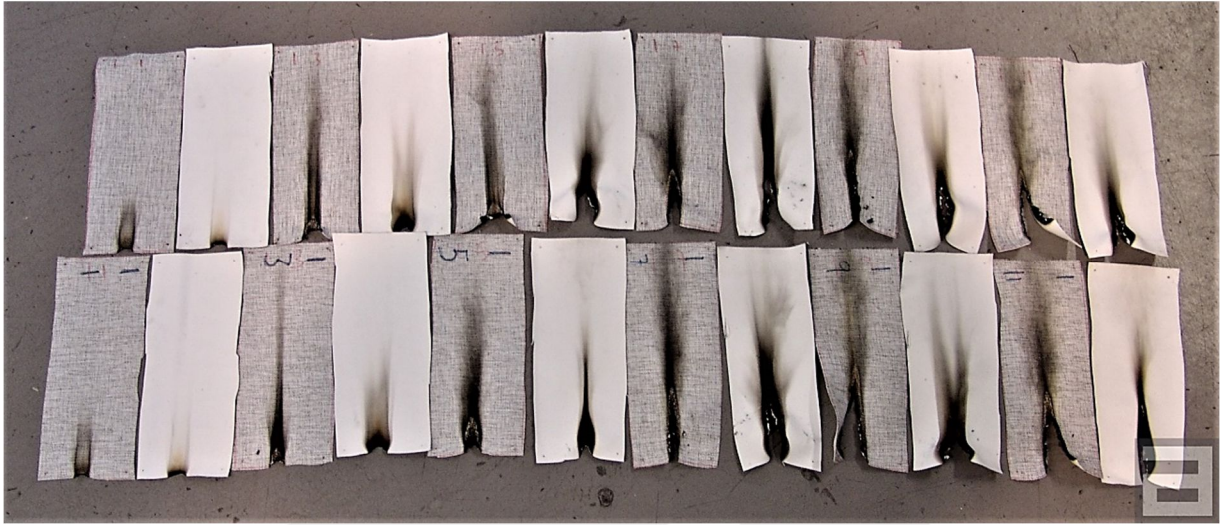
Test according to EN ISO 6940:2004, section 11				
Specimen no.	Lengthwise / Warp		Widthwise / Weft	
	Flame application time (s)	Results	Flame application time (s)	Results
# 1	20	O	20	O
# 2	20	O	20	O
# 3	20	O	20	O
# 4	20	O	20	O

X: Ignition / O: Non-ignition

Mean ignition time, according to EN ISO 6940 - Annex B.2				
Flame application time (s)	Lengthwise / Warp		Widthwise / Weft	
	Number of ignition cases	Number of cases of non-ignition	Number of ignition cases	Number of cases of non-ignition
1	0	1	0	1
2	0	1	0	1
3	0	1	0	1
4	0	1	0	1
5	0	1	0	1
10	0	1	0	1
15	0	1	0	1
20	0	5	0	5
Comments	---		----	

	Lengthwise / Warp	Widthwise / Weft
Mean ignition time (s)	≥ 20	≥ 20
Minimum ignition time (s)	≥ 20	
Ignition of the specimen within 20 s	No	No

Picture after testing:





**TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR.
CURTAINS AND DRAPES. MEASUREMENT OF FLAME
SPREAD OF VERTICALLY ORIENTED SPECIMENS WITH
LARGE IGNITION SOURCE**

Test standard:	EN 13772:2011
According to:	N.A.
Date of completion:	March 02 nd , 2022

Test equipment:
Vertical flammability test equipment, JBA, no. EQ299
Chronometer, VENTIX, no. EQ1389
Anemometer, TESTO, no. PA075
Milimeter ruler, no. EQ285

Test conditions:
Conditioning of specimens: 24 hours at 20°C ± 2°C and 65% RH ± 5% RH
Test atmosphere: 19,8°C and 44,3% r.h.
Sampling: <ul style="list-style-type: none">• Number of specimens: 8 (4 lengthwise, 4 widthwise)• Dimensions of the specimens: 560 mm ± 2 mm x 170 mm ± 2 mm
Internal identification of specimens: M-00262/22
Type of test: <ul style="list-style-type: none">• In-as received conditions (after conditioning)• After domestic washing, according to EN ISO 6330:2012, procedure 3N, air drying
Material with different sides: Yes <ul style="list-style-type: none">• Side A: Fabric• Side B: Coating
Reference material used: <ul style="list-style-type: none">• Standard cotton fabric (no. MR006)• Standard cotton marker thread (no. MR007)• Standard paper filter (no. MR008)
Temperature increase ratio between 40°C and 100°C: (3,0 ± 1) °C/s
Flame height: 40 mm ± 2 mm
Air speed: < 0,2 m/s
Tested area: Bottom edge
Type of gas: Propane, commercial grade

Results:

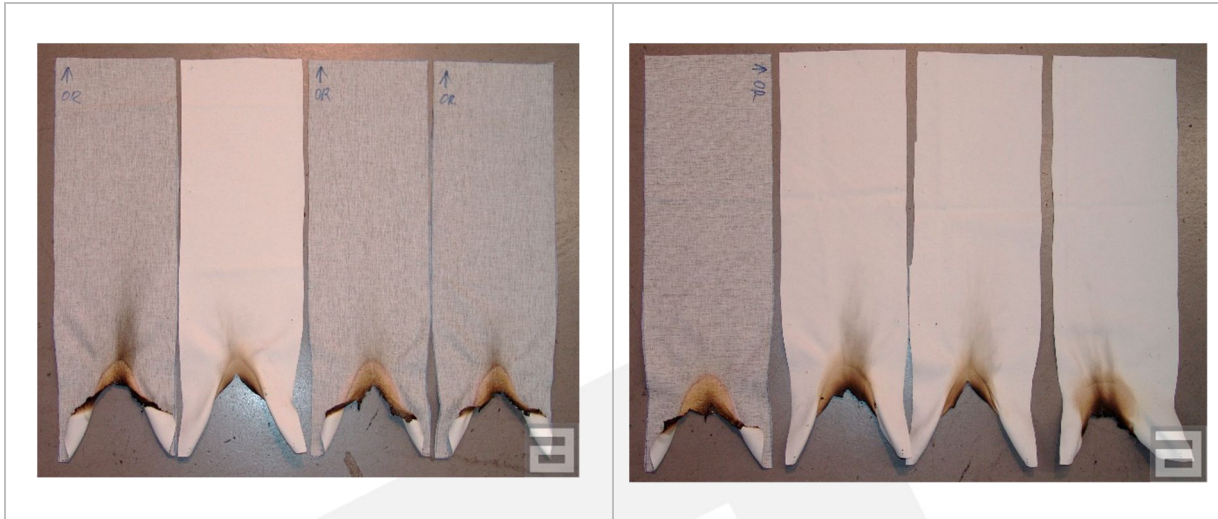
In as-received conditions

Specimen no.	Lengthwise / Warp				Widthwise / Weft			
	#1	#2	#3	#4	#1	#2	#3	#4
Tested side	A	B	A	A	A	B	B	B
1 st marking thread breaking	No	No	No	No	No	No	No	No
2 nd marking thread breaking	No	No	No	No	No	No	No	No
3 rd marking thread breaking	No	No	No	No	No	No	No	No
Specimen burns and extinguishes before the 1 st marking thread	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time elapsed from flame application to break 3 rd marking thread (s)	---	---	---	---	---	---	---	---
Uncertainty (s)	---				---			
Length of the damaged area (mm)	136	134	132	134	130	134	135	124
Uncertainty (mm)	± 3				± 8			
Ignited dripping or residues burn the filter paper	No	No	No	No	No	No	No	No

After domestic washing

Specimen no.	Lengthwise / Warp				Widthwise / Weft			
	#1	#2	#3	#4	#1	#2	#3	#4
Tested side	A	B	A	A	A	B	B	B
1 st marking thread breaking	No	No	No	No	No	No	No	No
2 nd marking thread breaking	No	No	No	No	No	No	No	No
3 rd marking thread breaking	No	No	No	No	No	No	No	No
Specimen burns and extinguishes before the 1 st marking thread	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time elapsed from flame application to break 3 rd marking thread (s)	---	---	---	---	---	---	---	---
Uncertainty (s)	---				---			
Length of the damaged area (mm)	135	116	116	116	109	112	104	124
Uncertainty (mm)	± 15				± 13			
Ignited dripping or residues burn the filter paper	No	No	No	No	No	No	No	No

Pictures after testing:



As-received conditions. Direction: Lengthwise / Warp



As-received conditions. Direction: Widthwise / Weft



**TEXTILES AND TEXTILE PRODUCTS. FIRE BEHAVIOUR.
 CURTAINS AND DRAPERIES. CLASSIFICATION SCHEME**

Test standard:	EN 13773:2003
According to:	N.A.
Date of completion:	March 01 st – 02 nd , 2022


Classification criteria, according to EN 13773:2003, section 5, table 1

Class	Flammability	Flame spread
1	Non-ignition according to standard EN 1101:1995/A1:2005	First marking thread unaffected, without traces of flame action, according to the standard EN 13772:2011
2	Non-ignition according to standard EN 1101:1995/A1:2005	Third marking thread unaffected, without traces of flame action, according to the standard EN 13772:2011
3	Non-ignition according to standard EN 1101:1995/A1:2005	Third marking thread affected, and/or traces of flame action, according to standard EN 13772:2011
4	Ignition according to standard EN 1101:1995/A1:2005	Unaffected third marking thread without traces of flame action, according to standard EN 1102:2016
5	Ignition according to standard EN 1101:1995/A1:2005	Affected third marking thread and/or traces of flame action, according to standard EN 1102:2016

CLASSIFICATION

CLASS 1

SIGNATURE OF AUTHORISED PERSONNEL

	
Advanced Technology Services Technical Manager – Materials Area	Advanced Technology Services Head of Department
Albert Briz	Jordi Jamilena



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